



Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact support@jstor.org.

JOURNAL OF MYCOLOGY.

Vol. II. MANHATTAN, KANSAS, MARCH, 1886. No. 3.

THE PHYLLOSTICTAS OF NORTH AMERICA.

BY GEORGE MARTIN, M. D.

(Continued from page 20.)

55. *PHYLLOSTICTA DODECATHEI*, Trelease. Journ. Mycol., 1, p. 14.
"Spots circular, brown, about 3 millim, in diameter; sporulæ hyaline, ovoid to oblong, sometimes nearly spherical, eguttulate, $2-5 \times 3\frac{1}{2}-7 \mu$, unicellular." On leaves of *Dodecatheon Meadia*.
56. *PHYLLOSTICTA GAULTHERIÆ*, E. & E. Journ. Mycol., 1, p. 153.
"Spots scattered, amphigenous, dark reddish-purple, 1—2 millim. in diameter, border still darker; perithecia amphigenous, sublenticular, black, coarsely cellular, slightly prominent, covered by the cuticle, $100-115 \mu$; sporulæ elliptical, hyaline, granular, $5-7 \times 4-5 \mu$. On living leaves of *Gaultheria procumbens*." Newfield, N. J.
57. *PHYLLOSTICTA INNUMERA*, Cke. & Hark. Grev., 9, p. 84.
"Hypophyllous; perithecia small, sometimes in orbicular spots, and at other times in large gregarious patches; sporulæ elliptic, hyaline, continuous, $4\frac{1}{2} \times 2 \mu$." On living leaves of (?). California.
58. *PHYLLOSTICTA LAPPÆ*, Sacc. Mich. 1, p. 151. N. A. F., No. 1166.
Spots subcircular, nearly white, $1-1\frac{1}{2}$ millim., border brown, raised; perithecia brown, lenticular, erumpent, amphigenous, $70-100 \mu$; sporulæ hyaline, ovoid-oblong, $4\frac{1}{2}-6 \times 3 \mu$. On living leaves of *Lappa major*. Ohio.
59. *PHYLLOSTICTA NESÆÆ*, Pk. 34th Rep. N. Y. St. Mus., p. 44.
"Spots subcircular, pale red, scattered, or confluent; perithecia hypophyllous, small, numerous; sporulæ oblong, nearly straight, hyaline, $7-10 \times 2\frac{1}{2} \mu$." On leaves of *Nesæa verticillata*. New York.
60. *PHYLLOSTICTA ORONTII*, E. & M. Am. Nat., 16, p. 1002.
Spots large, yellow, border indefinite; perithecia brown, epiphyllous, 56μ in diameter; sporulæ hyaline, oval, $6 \times 2\frac{1}{2} \mu$. On leaves of *Orontium aquaticum*. New Jersey.
61. *PHYLLOSTICTA PHASEOLINA*, Sacc. Mich. 1, p. 49.
"Spots large, indeterminate, yellow; perithecia scattered, lenticular, erumpent, 70μ in diameter; sporulæ ovoid-oblong, mostly straight, hyaline, $6 \times 2\frac{1}{2} \mu$." On leaves of *Phaseolus diversifolius*. North America.

62. *PHYLLOSTICTA PHYTOLACCÆ*, Cke. Grev., 12, p. 25, Rav., F. A., No. 514.

"Epiphyllous; spots orbicular, gray brown; perithecia minute, semi-innate, light brown; sporulæ short, linear, obtuse, hyaline, straight, $8 \times 1\frac{1}{2} \mu$." On leaves of *Phytolacca decandra*. South Carolina.

63. *PHYLLOSTICTA PODOPHYLLI*, Winter. Torrey Bull., 10, p. 49. Ellis, N. A. F., No. 1156. *Ascospora Podophylli*, Curt. Pk., N. Y., St. Rep. No. 23.

Spots large, irregular, often confluent, pale brown; perithecia black, globose, amphigenous, clustered, often near the veins, $100-120 \mu$ in diameter; sporulæ subglobose, or ellipsoid, hyaline, granular, $8-9 \times 5-6 \mu$. On leaves of *Podophyllum peltatum*. Pennsylvania and Kentucky.

64. *PHYLLOSTICTA SANGUINARIÆ*, Winter. Journ. Mycol., 1, p. 123.

Spots scattered, round or irregular, gray, or white, 1-5 millim., border brownish-purple, distinct, elevated; perithecia epiphyllous, gregarious, globose, punctiform, erumpent, black, 100μ in diameter; sporulæ numerous, elliptic, oblong, one end a little attenuated, hyaline, $5-7 \times 1\frac{1}{2}-2\frac{1}{2} \mu$. On leaves of *Sanguinaria Canadensis*. Missouri.

65. *PHYLLOSTICA SOLANI*, E. & M. Am. Nat., 16, p. 1002.

Spots pale brown, border a little darker; perithecia black, amphigenous, upper portion deciduous, 90μ in diameter; sporulæ subhyaline, oblong, $9 \times 2 \mu$. On leaves of *Solanum*. Kentucky.

66. *PHYLLOSTICA TUBEROSA*, E. & M. Ellis, N. A. F., No. 1161.

Spots brown, subregular, soon breaking out, 2-3 millim., border dark brown; perithecia brown, lenticular, epiphyllous, 180μ in diameter; sporulæ hyaline, ovate, nucleate, $12-18 \times 4-6 \mu$. On *Asclepias tuberosa*. New Jersey.

67. *PHYLLOSTICTA VERBENICOLA*, Martin, n. s.

Spots pallid, soon breaking out, 1-2 millim., border red-brown; perithecia dark brown, lenticular, amphigenous, few in a spot, 140μ in diameter; sporulæ subhyaline, ellipsoid, ends obtuse, $9 \times 3 \mu$. On leaves of *Verbena hastata*. New Jersey.

The above differs materially from *P. verbenæ*, Sacc. Mich., 1, p. 530.

68. *PHYLLOSTICTA VERBASICOLA*, E. & K. Torrey Bull., 11, p. 115.

Spots large, often coalescing, border indefinite; perithecia light-brown, epiphyllous, $120-150 \mu$ in diameter; sporulæ subhyaline, with a slight tint of brown, oblong-elliptic, $3\frac{1}{2}-5 \times 1\frac{1}{2}-2 \mu$. On leaves of *Verbascum Thapsus*. Kansas.

69. *PHYLLOSTICTA VIOLÆ*, Desm. Mich. 1, p. 143. Ellis, N. A. F., No. 1371.

Spots subcircular, pallid, 2-4 millim. in diameter, border brown, raised; perithecia brown, erumpent, lenticular, epiphyllous, $100-130 \mu$ in diameter, but a few in a spot; sporulæ hyaline, oblong, or oval-oblong, $6-7 \times 3 \mu$. On leaves of *Viola cucullata*.

70. *PHYLLOSTICTA CORYLINA*, E. & M. Am. Nat., 18, p. 1264.

This is *Glœsporium Coryli*, (Desm.), see Vol. 1, p. 114, of this Journal.

Index of the Species of Phyllosticta.

The figures refer to the number of the description.

Phyllosticta acericola.....	1	Phyllosticta Magnoliæ.....	23
“ abortiva.....	2	“ micropuncta.....	24
“ affinis.....	3	“ Myricæ.....	25
“ Ampelopsidis.....	4	“ Nerii.....	26
“ Amaranthi.....	46	“ Nesææ.....	59
“ Astragali.....	47	“ Nyssæ.....	27
“ Apocyni.....	48	“ Oleæ.....	28
“ Asiminæ.....	5	“ Orontii.....	60
“ bataticola.....	49	“ Perseæ.....	29
“ Batatas.....	50	“ persica.....	10
“ Catalpæ.....	6	“ phaseolina.....	61
“ Chenopodii.....	51	“ phomiformis.....	30
“ Circumvellata.....	7	“ Phytolacææ.....	62
“ Clethricola.....	8	“ Podophylli.....	63
“ Cornicola.....	9	“ Platani.....	31
“ corylina.....	70	“ pyrorum.....	32
“ Cornuti.....	52	“ pyrina.....	33
“ Cratægi.....	11	“ Quercus rubræ.....	34
“ cruenta.....	53	“ Sanguinariæ.....	64
“ decidua.....	54	“ Sassafras.....	35
“ Dodecathei.....	55	“ sorotina.....	36
“ Fraxini.....	12	“ sinuosa.....	37
“ Garryæ.....	13	“ Solani.....	65
“ Gaultheriæ.....	56	“ spha ropsidea.....	38
“ glauca.....	14	“ terminalis.....	39
“ Gordoniæ.....	15	“ Toxicodendri.....	40
“ Grossulariæ.....	16	“ toxica.....	41
“ Hamamelidis.....	17	“ tuberosa.....	66
“ Heteromeles.....	18	“ verbenicola.....	67
“ innumera.....	57	“ verbascicola.....	68
“ Labruscæ.....	19	“ vesicatoria.....	42
“ Lappæ.....	58	“ Violæ.....	69
“ Leucothoe.....	20	“ viticola.....	43
“ lirioidendrica.....	21	“ Mentzeliiæ.....	45
“ Lycii.....	22	“ vulgaris.....	45

Alphabetical list of Host-plants of Phyllosticta.

Acer rubrum.....	1	Magnolia glauca.....	14
Aesculus Hippocastanus.....	38	Maguolia grandiflora.....	23
Ampelopsis quinquefolia.....	4	Menispermum Canadense.....	2
Amaranthus retroflexus.....	46	Myrica cerifera.....	25
Apocyanum cannabinum.....	48	Nerium Oleander.....	26
Asclepias Cornuti.....	52	Nesæa verticellata.....	59
Asclepias tuberosa.....	66	Nyssa capitata.....	27
Asimina triloba.....	5	Olea Americana.....	28-37
Astragalus.....	47	Orontium aquaticum.....	60
Batatis.....	49	Persea Caroliniensis.....	24-29
Catalpa begonioides.....	6	Persica vulgaris.....	10
Cerasus serotina.....	36	Phaseolus diversifolius.....	61
Chenopodium album.....	51	Phytolacca decandra.....	62
Clethra alnifolia.....	8	Platanus.....	31
Convolvulus.....	50	Podophyllum peltatum.....	63
Cornus.....	9	Prunus serotina.....	36
Corylus Americana.....	10	Pyrus.....	32-33
Cratægus.....	11	Quercus alba.....	30
Dodecatheon Meadia.....	55	Quercus cinea.....	42
Fraxinus.....	12	Quercus rubra.....	34
Garrya elliptica.....	13	Rhus Toxicodendron.....	40-41
Gaulthera procumbens.....	56	Ribes Grossularia.....	16
Gordonia Lasianthus.....	15	Sanguinaria Canadensis.....	64
Hamamelis Virginica.....	17	Sassafras officinale.....	3-35
Heteromeles.....	18	Smilacina racemosa.....	53
Ilex Dahoon.....	17	Solanum.....	65
Lappa major.....	58	Verbena hastata.....	67
Leonurus cardica.....	54	Verbascum Thapsus.....	68
Leucothoe acuminata.....	20	Viola cucullata.....	69
Lonicera.....	45	Vitis Labrusca.....	19
Lirioidendron Tulipifera.....	7-21	Vitis vulpina.....	43
Lycium vulgare.....	22	Unknown.....	57